

1372  
1173

The Romanesque Tower of Pisa  
was started by Bonanno Pisano  
in 1173 as a campanile, or bell  
tower for the nearby Baptistery.  
It was not completed until  
1372.

It began to lean in construction.  
Foundation was dug down to 10 ft  
but did not reach bedrock.

It is 184.5 ft tall & about 17 feet out  
of plumb

Increasing about 0.2 inch/yr.

During 1960, cement was added to  
foundation to strengthen it, but it  
is still threatened with collapse.

In 1999. They have added lead weights  
& seem to straighten it a little.

1322  
1173

leaning Tower of Pisa  
184.5 ft tall is about 17 feet out  
of perpendicular, increasing about  
 $\frac{1}{20}$  in (1.25 mm) per year

Romanesque-style tower was  
started by BONANNIO PISANO in 1173  
as a companion, w bell tower, but  
not completed till 1372. Built entirely  
of white marble, with 8 tiers

of arched arcades. It began to lean during construction.

Although the foundation was dug down 10 ft, the builder did not reach bedrock for firm footing.

During 1960's cement was added to the foundation to strengthen it, but it is still threatened with collapse.

1372

1368-1644 Ming Dynasty

Records of textiles local to Chensuwa go back to Ming Dynasty when China extended its cultural & economic hegemony to the RYUKYU islands. In 1372 the first ~~AD~~ RYOKYU emissaries reached NANJING where they presented their tribute payment of local products: ~~saff~~ sulfur, horses and ramie cloth (still being made in 2002)

Ramie cloth is a fabric woven from  
the best fibers of an indigenous plant  
in the nettle family